

Brandon Galloway

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Experience

Sr. Software Engineer

Liberty Mutual

April 2023 – Present

Bloomington, IL

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- suscipit. Donec sit amet neque at orci accumsan sollicitudin sed ac urna. Donec sed eleifend
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- quis pretium dignissim. Proin in elementum dui. Ut gravida, dui a vestibulum tincidunt, tellus

Full Stack Software Developer

COUNTRY Financial

May 2019 – April 2023

Bloomington, IL

- Served agency and marketing consumers, covering lead flow and policy management
- Engineered an event-driven service pipeline automating Meta leads for thousands of agents
- Delivered a solution to provide real-time SMS notifications for targeted lead alerts
- Core contributor to org-wide modernization of IBM-based apps to Spring microservices
- Developed blue-green Azure capabilities; won “Most Production Ready” hackathon award
- Produced novel CI pipelines to support new use cases and enable an org-wide shift-left

Founding Engineer

We Hear You

September 2019 – February 2020

Peoria, IL

- Created a CNN model capable of keypoint-assisted near real time ASL fingerspelling translation
- Assisted in analysis of the viability of Microsoft’s connect hardware for future modeling

Projects

UIUC Capstone Research – Debiasing Deep Chest X-Ray Classifiers

December 2024 – May 2025

Skills: Pytorch, Computer Vision, Fairness in AI, Statistical Analysis, Deep Learning, Big Data

- Replicated and extended published bias mitigation research in medical imaging using the MIMIC-CXR dataset (>220,000 chest X-ray studies)
- Implemented adaptive bias-aware pruning and engineered bias-tuned optimization functions to reduce gender bias (equalized odds) with minimal impact on classification performance
- Built a PyTorch pipeline with fairness-aware optimization via differentiable bias proxies
- Trained on large-scale clinical data, leveraging 600+ GPU hours on NVIDIA Tensor hardware

Flora – IoT Houseplant Monitoring

November 2023 – Present

Skills: AWS, Lambda, GraphQL, Javascript, IoT, Microelectronics, ARM, RISC-V

- Developed an ESP32-C6-based sensor node to publish enviro data via MQTT to AWS IoT Core
- Designed a serverless backed using AWS Lambda, AppSync (GraphQL), and Cognito auth
- Collected soil, light, temperature, and humidity data synchronized through RTC readings
- Leveraged RISC-V deep sleep power efficiency to support 60-day charge cycles

Home Compute Cluster

February 2020 – Present

Skills: Networking, High Availability, Kubernetes, ZFS, Secure Design, Docker

- Deployed a 6 node K3S cluster with 32 total cores and 96gb of available memory.
- Designed a high-speed 10GbE fiber network topology to enable centralization of OS data
- Integrated a Zigbee mesh network for local IoT, interfaced with the cluster for automation
- Leveraged infrastructure-as-code and GitOps workflows to manage cluster state

Education

University of Illinois Urbana-Champaign

Master of Computer Science, Focus in Data Science - Expected May 2025

Urbana, IL

Bradley University

Bachelor of Science in Computer Science, Minor in Mathematics

Peoria, IL

Concentrations in Data Science and Cyber Security

Publications

- 7th International KES Conference on Smart Education and e-Learning^{[1][2]}